



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 24, 2008

TO: Mayor and Councilmembers

FROM: Facilities Maintenance Division, Public Works Department

SUBJECT: Approval Of Energy Leaders Pilot Program Participation With
Southern California Edison For Fiscal Year 2009

RECOMMENDATION:

That Council authorize the Public Works Director to approve the City of Santa Barbara's participation in Southern California Edison's Energy Leaders Pilot Program, which will provide monetary incentives to the City for completion of energy efficiency projects in municipal facilities.

DISCUSSION:

Southern California Edison (SCE) has chosen the City of Santa Barbara to be one of two cities in their operating territory to participate in their new energy efficiency partnership, the Energy Leaders Pilot Program (Program).

Under the Program, the City has proposed several energy conservation projects, including replacement of the old air conditioning systems at the Public Works/Community Development building, with high-efficiency systems. These projects will also include the installation of an electronic building control system to manage mechanical equipment, maximize energy efficiency, monitor indoor air quality and improve occupant comfort. The energy conservation project will commence immediately upon Council's approval. The combined project energy savings is estimated to be 230,000 kilowatt-hours per year, providing an annual savings of \$33,000 in electricity cost. SCE will provide their standard suite of energy incentives, as well as an enhanced incentive of 12 cents per annual kilowatt-hour. The Program is expected to provide the City an estimated \$45,000 in incentives.

The Program also has a benefit to the community. It will provide about \$50,000 to replace inefficient lighting systems with energy efficient lighting for local businesses. City Staff will identify installation opportunities in the community and will work with SCE to implement them. The Program will also provide information on general energy conservation and efficiency information on SCE's incentive programs to the community.

Participation in the Program neither obligates the City financially, nor does it require the City to obtain a specific energy reduction goal. However, the size of the monetary incentive is tied to the level of energy reductions.

BUDGET/FINANCIAL INFORMATION:

Capital funding for the Program's energy conservation projects is budgeted in the Fiscal Year 2009 ICS Facilities Fund and Water Fund. The City's contribution to the Program will be approximately \$170,000, combined with a \$45,000 SCE incentive, for a net contribution of \$215,000.

Most of the projects involve systems that are in need of replacement, and the Program funding will help decrease the cost of the project implementation, saving the City on both capital and ongoing energy costs.

SUSTAINABILITY IMPACT:

The energy conservation projects identified in the Program for 630 Garden Street will help City Staff meet the requirements of the Leadership for Energy and Environmental Design for Existing Buildings (LEED-EB). City Staff plans to certify the Public Works/Community Development building under LEED-EB in Fiscal Year 2009. The replacement of the air conditioning systems, installation of electronic building controls, and lighting reductions in the building, will help to save energy, money, and achieve a LEED rating of Silver or higher.

ATTACHMENT: Energy Leaders Pilot Program Projects

PREPARED BY: Jim Dewey, Facility and Energy Manager/es

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office

Energy Leaders Pilot Program Projects

Jim Dewey, Facilities Manager

June 24, 2008

Energy Leaders Pilot Projects

The table below shows the proposed projects for the Energy Leaders Pilot Program. The projects include two pumping retrofits for Water Resources, and four energy conservation projects for General Fund buildings. These projects will replace systems that are outdated and need to be replaced anyway. This program will save the City money for the capital cost of these projects and for ongoing energy costs.

Table: 2008 Energy Leaders Pilot Energy Conservation Projects

Project Name	Details	kWh Savings
Escondido Pumping Station Pumps 1 & 2	Replace 2-30 hp motors and pumps with high efficiency units and convert system to variable speed pumping	32,922
Golf Course Recycled Water Pumps	Replace 2 submersible pumps with more efficient units and convert system to variable pumping based on a minimum discharge pressure	66,720
Replacement of 9 HVAC units, Installation of Electronic Controls and Delamping at 630 Garden Street	Replace 9 HVAC units, add electronic controls to HVAC systems to implement "free cooling" days and flex down shut down, and delamp over lit areas of building	90,930
Westside Center Lighting Retrofit	Retrofit inefficient indoor lighting and incandescent down lights with T-8 fluorescent direct/indirect fixtures and lights	3,500
Eastside Library Lighting Retrofit	Retrofit inefficient lights with compact fluorescent systems and replace T-12 fluorescents with T-8	7,000
Central Library VFD Install	Install variable frequency drives on the supply fans of the 30 and 25 ton A/C systems	28,060
Total		229,132